

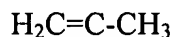
Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-12. (canceled)

13. (currently amended) A denture, denture base, denture liner or tissue conditioner comprising ~~the~~ a co-polymer of claim 1 that comprises a first repeating unit and a second repeating unit in a molar ratio of 60 to 40 or higher, wherein the first repeating unit is derived from an alkyl or aryl methacrylate monomer and the second repeating unit is derived from a phosphate-containing monomer having the formula

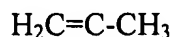


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X

wherein X is selected from the group consisting of -O-PH₂O₃ and -R-O-PH₂O₃,
wherein the R group in -R-O-PH₂O₃ is selected from the group consisting of -COO-CH₂-CH₂ and
a straight or branched alkyl chain of 10 carbon atoms or less,
wherein the two methylene groups in -COO-CH₂-CH₂ and the alkyl carbon chain can be
substituted with an aryl group, a cycloalkyl group or both.

14. (currently amended) A denture comprising ~~the~~ a co-polymer of claim 1 that comprises a first repeating unit and a second repeating unit in a molar ratio of 60 to 40 or higher,
wherein the first repeating unit is derived from an alkyl or aryl methacrylate monomer and the
second repeating unit is derived from a phosphate-containing monomer having the formula



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X

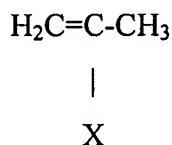
wherein X is selected from the group consisting of -O-PH₂O₃ and -R-O-PH₂O₃,
wherein the R group in -R-O-PH₂O₃ is selected from the group consisting of -COO-CH₂-CH₂ and
a straight or branched alkyl chain of 10 carbon atoms or less,

wherein the two methylene groups in -COO-CH₂-CH₂ and the alkyl carbon chain can be substituted with an aryl group, a cycloalkyl group or both..

15. (canceled)

16. (withdrawn - currently amended) A method for synthesizing ~~a co-polymer of claim 1~~ the denture, denture base, denture liner or tissue conditioner of claim 13, the method comprising the steps of:

providing an alkyl or aryl methacrylate monomer and a phosphate-containing monomer having the formula



wherein X is selected from the group consisting of -O-PH₂O₃ and -R-O-PH₂O₃,

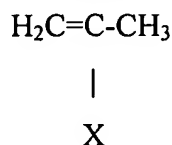
wherein the R group in -R-O-PH₂O₃ is selected from the group consisting of -COO-CH₂-CH₂ and a straight or branched alkyl chain of 10 carbon atoms or less,

wherein the two methylene groups in -COO-CH₂-CH₂ and the alkyl carbon chain can be substituted with an aryl group, a cycloalkyl group or both; and

exposing the monomers to conditions under which the monomers polymerize to form a co-polymer.

17. (withdrawn - currently amended) A method for synthesizing ~~a co-polymer of claim 1~~ the denture, denture base, denture liner or tissue conditioner of claim 13, the method comprising the steps of:

providing a pre-polymerized polymer, an alkyl or aryl methacrylate monomer and a phosphate-containing monomer having the formula

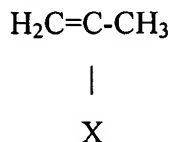


wherein X is selected from the group consisting of -O-PH₂O₃ and -R-O-PH₂O₃,

wherein the R group in -R-O-PH₂O₃ is selected from the group consisting of -COO-CH₂-CH₂ and a straight or branched alkyl chain of 10 carbon atoms or less,
wherein the two methylene groups in -COO-CH₂-CH₂ and the alkyl carbon chain can be substituted with an aryl group, a cycloalkyl group or both; and
exposing the pre-polymerized polymer and the monomers to conditions under which the pre-polymerized polymer and the monomers polymerize to form a co-polymer.

18. (withdrawn - currently amended) A method for making a denture base of claim 13, the method comprising the steps of:

providing a pre-polymerized polymer resin suitable for making the denture base, and a liquid comprising an alkyl or aryl methacrylate monomer and a phosphate-containing monomer having the formula



wherein X is selected from the group consisting of -O-PH₂O₃ and -R-O-PH₂O₃,
wherein the R group in -R-O-PH₂O₃ is selected from the group consisting of -COO-CH₂-CH₂ and a straight or branched alkyl chain of 10 carbon atoms or less,
wherein the two methylene groups in -COO-CH₂-CH₂ and the alkyl carbon chain can be substituted with an aryl group, a cycloalkyl group or both; and

mixing the pre-polymerized polymer resin with the liquid comprising the alkyl methacrylate monomer and the phosphate-containing monomer under conditions that allow the pre-polymerized polymer and the monomers to polymerize to form the denture base.

19-20. (canceled)

21. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the first repeating unit is derived from an alkyl or aryl methacrylate monomer that has 10 carbons or less.

22. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the first repeating unit is derived from methyl methacrylate.

23. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the second repeating unit is derived from methallyl phosphate.

24. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the second repeating unit is derived from ethylene glycol methacrylate phosphate.

25. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 70 to 30.

26. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 75 to 25.

27. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 80 to 20.

28. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 85 to 15.

29. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 90 to 10.

30. (new) The denture, denture base, denture liner or tissue conditioner of claim 13, wherein the molar ratio of the first repeating unit to the second repeating unit is at least 95 to 5.